

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

CHRIS E. JOHNSON et al.

Serial No.: 09/668,652

Filed: September 22, 2000

For: Extended Multi-Line Hunt Group Communications

Attorney Docket No.: 1756 (USW0587PUS)



Group Art Unit: 2662

Examiner: Ahmed Elallam

# PETITION TO REVIVE AN ERRONEOUSLY ABANDONED APPLICATION UNDER 37 C.F.R. § 1.181(a)

Mail Stop Petition Commissioner for Patents U.S. Patent & Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

The undersigned hereby petitions to revive the above-identified application, which received a Notice of Abandonment mailed on December 28, 2006 (a copy of which is enclosed). The reason indicated that the application was abandoned as a result of Applicants' failure to completely respond to the Notification of Non-Compliant Appeal Brief mailed December 13, 2005. The Examiner has agreed that the Notice of Abandonment was issued in error. Applicants did, in fact, timely and appropriately respond to the Notification of Non-Compliant Appeal Brief within the period provided.

#### CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8 (FIRST CLASS MAIL)

I hereby certify that this paper, including all enclosures referred to herein, is being deposited with the United States Postal Service as first-class mail, postage pre-paid, in an envelope addressed to: Mail Stop Petition, Commissioner for Patents, U.S. Patent & Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 on:

January 31, 2007

Date of Deposit

Mark D. Chuey
Name of Person Signing

Signature

The facts of this matter are as follows: This case received a final Office Action on January 26, 2005. A Notice of Appeal and an appropriate Petition for Extension of Time was mailed July 18, 2005, and an Appeal Brief was mailed September 19, 2005. (Exhibit A.) On December 13, 2005, a Notification of Non-Compliant Appeal Brief was mailed by the Examiner, citing 37 C.F.R. § 41.37(c)(1)(v). (Exhibit B.) The only reason given by the Examiner, other than the standard paragraph, was as follows:

More specifically, the brief does not refer to the specification by page and line number, and to the drawing, if any, by reference characters for the independent claims 1, 15, 23, 31, and 32 involved in the appeal.

Despite believing the Appeal Brief met all requirements, Applicants added extensive references to the specification and drawings in an Amended Appeal Brief mailed January 17, 2006. (Exhibit C.) Nevertheless, the Examiner dismissed the Appeal and abandoned the application in a communication mailed December 28, 2006. (Exhibit D.)

The undersigned conducted a telephonic conference with Examiner Elallam on January 22, 2007, in which the Notification of Non-Compliant Appeal Brief and Amended Appeal Brief were discussed. During this conference, Examiner Elallam reread Applicants' Amended Appeal Brief, admitted that the Brief met all requirements under 37 C.F.R. § 41.37(c)(1)(v), and indicated that the abandonment was improper.

It appears that, through an error by the Examiner, a Notice of Abandonment was issued in this case. It is hereby requested that the application be returned to active pending status and the case promptly forwarded to the Board of Appeals for review.

As the error resulting in the Notice of Abandonment was a result of the actions of the Patent and Trademark Office, no fee is believed to be appropriate or necessary for this Petition. In the event, however, that the Patent Office determines that a fee is necessary, the Patent Office is authorized to charge Deposit Account No. 02-3978 for the Petition fee, without prejudice as to seeking a later refund, in order to return the application to active pending status.

If the Patent Office has any questions regarding this communication they may be directed to the undersigned.

Respectfully submitted,

CHRIS E. JOHNSON et al.

Mark D. Chuey

Registration No. 42,415

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Date: <u>January 31, 2007</u>

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## **EXHIBIT A**

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Group Art Unit: 2662

CHRIS E. JOHNSON et al.

Examiner: Ahmed Elallam

Serial No.: 09/668,652

Filed: September 22, 2000

For: Extended Multi-Line Hunt Group Communications

Attorney Docket No.: 1756 (USW0587PUS)

#### APPEAL BRIEF UNDER 37 C.F.R. § 41.37

Mail Stop Appeal Brief - Patents Commissioner for Patents U.S. Patent & Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

This is an Appeal Brief from the final rejection of claims 1-3, 5-7, 10-18, 20-26, and 28-32 of the Office Action mailed on January 26, 2005, for the above-identified patent application.

#### CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this paper, including all enclosures referred to herein, is being deposited with the United States Postal Service as first-class mail, postage pre-paid, in an envelope addressed to: Mail Stop Appeal Brief - Patents, Commissioner for Patents, U.S. Patent & Trademark Office, P.O. Box 1450, Alexandria, VA 22334-1450 on:

September 19, 2005

Date of Deposit

Mark D. Chuey, Ph.D. Name of Person Signing

Signature

#### I. REAL PARTY IN INTEREST

The real party in interest is Qwest Communications International Inc. ("Assignee"), a corporation organized and existing under the laws of the state of Delaware, and having a place of business at 1801 California Street, Denver, Colorado, 80202, as set forth in the assignment recorded in the U.S. Patent and Trademark Office on September 22, 2000, at Reel 011139/Frame 0360.

#### II. RELATED APPEALS AND INTERFERENCES

There are no appeals or interferences known to the Appellant, the Appellant's legal representative, or the Assignee which will directly affect or be directly affected by or have a bearing on the Board's decision in the pending appeal.

#### III. STATUS OF CLAIMS

Claims 1-3, 5-7, 10-18, 20-26, and 28-32 are pending in this application. Claims 1-3, 5-7, 10-18, 20-26, and 28-32 have been rejected and are the subject of this appeal.

#### IV. STATUS OF AMENDMENTS

No amendment after final was requested.

#### V. SUMMARY OF CLAIMED SUBJECT MATTER

Multi-line hunt groups include a set of telecommunication lines organized such that if one line is busy, another line is hunted until a free line is found. Typically, at least one line is dedicated to handling out-of-band signaling for the remaining communication lines. Problems with multi-line hunt groups arise when users are located a great distance away from service sites. Subscribers accessing a remote service may then incur long distance charges. Such charges increase the cost of the service, making the service less attractive to users.

Appellants' invention transports voice traffic and associated signaling over cost insensitive packet communication networks. This permits centrally located service platforms without prohibitive long distance costs to remote users. With regard to Figures 2 and 3, Appellants' invention, in at least one embodiment, includes an IP-enabled communication network (52), at least one service site (24, 72) connected to the communication network, and at least one site (22) connected to the communication network remote from the service site. The remote site includes a plurality of subscribers (28), a switch (30) interconnecting the plurality of subscribers, at least one multi-line hunt group (26) connected to the switch, and a gateway or network access device (54, 74). Each multi-line hunt group includes a plurality of voice communication lines (32) and at least one signaling line (34) carrying signaling data. The gateway receives the plurality of voice communication lines and the at least one signaling line for each multi-line hunt group and interfaces each multi-line hunt group and the communication network. Each service site includes a service platform (36, 76) providing voice services, a switch (30) connected to the service platform, at least one multi-line hunt group connected to the switch, and a gateway or network access device (54, 78) interfacing each multi-line hunt group and the communication network.

#### VI. GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

The Examiner based his rejections on the following references:

- 1. U.S. Patent No. 6,069,890 to White *et al.* (henceforth, White '890);
- 2. U.S. Patent No. 5,933,490 to White et al. (henceforth, White '490);
- 3. U.S. Patent Appl. Pub. No. 2003/0165231 to Singh (henceforth, Singh);
- 4. U.S. Patent No. 6,532,235 to Benson et al. (henceforth, Benson);
- 5. U.S. Patent Appl. Pub. No. 2002/0016926 to Nguyen et al. (henceforth, Nguyen);
- 6. Appellants' "admitted prior art."

Claims 1, 2, 5, 10, 11, 13, 14 and 31 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over White '890) in view of White '490. Claim 3 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over White '890 in view of White '490 and in further view of Singh. Claims 6 and 7 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over White '890 in view of White '490 and in further view of Benson. Claim 12 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over White '890 in view of White '490 and in further view of Nguyen. Claims 15, 16, 21-26, 28 and 32 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over "admitted prior art" in view of White '890 and White '490. Claims 17, 18, 29 and 30 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over "admitted prior art" in view of White '890 and White '490 and in further view of Benson. Claim 20 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over "admitted prior art" in view of White '890 and White '490 and in further view of Nguyen.

#### VII. ARGUMENT

Claims 1-3, 5-7, 10-18, 20-26 and 28-32 are pending in this application. Appellants believe claims 1-3, 5-7, 9-18, 20-26 and 28-32 are patentable over the cited art and respectfully request review by the Board in light of the following arguments.

#### A. Prior Art Summary

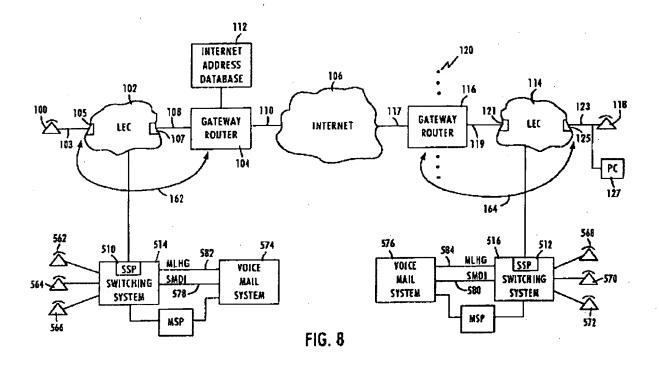
The principal references used in rejecting the pending claims are the White '890 and White '490 patents. While both references mention multi-line hunt groups, neither teaches nor fairly suggests Appellants' invention including sending both multi-line hunt group voice information and signaling over an IP communication network.

#### 1. The White '890 Patent

White '890 is concerned with allowing a single caller to place a call over the Internet, as disclosed in the Abstract.

A system and method for providing telephone type services over the internetwork commonly known as the Internet. Public switched telephone networks utilizing program controlled switching systems are arranged in an architecture with the Internet to provide a methodology for facilitating telephone use of the Internet by customers on an impromptu basis. Provision is made to permit a caller to set-up and carry out a telephone call over the Internet from telephone station to telephone station without access to computer equipment, without the necessity of maintaining a subscription to any Internet service, and without the requiring Internet literacy or knowledge. Calls may be made on an inter or intra LATA, region or state, nationwide or worldwide basis. Billing may be implemented on a per call, timed, time and distance or other basis. Usage may be made of common channel interoffice signaling to set up the call and establish the necessary Internet connections and addressing. Calls may be made from telephone station to telephone station, from telephone station to computer or computer to telephone station.

White '890 includes an architecture for providing voicemail service in Figure 8, which is reproduced as follows:



A telephone (100) for placing calls over the Internet is connected to a local exchange carrier (LEC 102) in a conventional fashion — without any multi-line hunt group — as provided in White '890 at column 7, lines 47-63, reproduced as follows:

A telephone 100 is connected to a Local Exchange Carrier (LEC) 102 by a conventional local loop 103 which normally would consist of a twisted pair to an end office 105. The Local Exchange Carrier or Telco may be either a Bell Operating Company (BOC) or an independent (e.g., GTE) which provide local transmission services. In order to provide telephone services according to the invention the LEC 102 is connected to a gateway router 104 which in turn is connected to the Internet 106. The gateway router 104 may be regarded as an ISP's gateway mechanism. The ISP may or may not be a part of the LEC. In a broad sense the gateway router 104 is equivalent to the router 85-87 shown in FIG. 3. The router 104 is connected

to an end office switch 107 which is the exit from the LEC cloud 102. The connection between the router and end office switch may be a T1 trunk 108.

It is interesting to note that Figure 8 of White '890 includes a multi-line hunt group (MLHG 582). This multi-line hunt group is part of a conventional, prior art system as described by Appellants at page 1, lines 12-24, reproduced as follows:

Typically, a multi-line hunt group is supported by a switch. A plurality of users are connected to the switch. The switch receives incoming calls and determines over which communication line of the multi-line hunt group the call will be transmitted. Multi-line hunt groups may be used at any service site supporting multiple resources. Examples include voicemail services, unified messaging, call centers, fax centers, data distribution centers, and the like.

Problems with multi-line hunt groups arise when users are located a great distance away from service sites. Subscribers accessing a remote service may then incur long distance charges. Such charges increase the cost of the service, making the service less attractive to users. One solution is to provide multiple copies of the service site at local locations. However, service equipment is often expensive, again resulting in increased costs to the user. Further, multiple local sites are difficult to maintain and may still require long distance inter-site communication.

This is exactly what is shown in Figure 8 of White '890. White '890 illustrates separate service equipment at each site. Moreover, it is clear that White '890 discloses shipping telephone calls over the Internet (106) as separate calls, not as part of a multi-line hunt group. Telephone calls are placed into multi-line hunt groups only after they are received at a local switch (512, 514).

#### 2. The White '490 Patent

White '490 discloses a technique for balancing the load between dial-up Internet service providers, as described in the Abstract.

Overload protection for dial-up access to the Internet uses a hybrid network including the Internet and an intelligent switched telephone network. A first Internet service provider

as follows:

(ISP) connects to the Internet through its server and router interface. This ISP also connects to a switching system in the telephone network; to provide dial-up service to user terminals connected to the telephone network. A service control point the intelligent telephone network monitors (SCP) predetermined traffic criteria resulting from dial-up attempts to call the ISP. Threshold parameters are set in storage associated with the SCP, and at least certain of the measured criteria are substantially continually compared to one or more of these parameters. When one or more of the parameters is equaled or exceeded, the SCP causes redirection of calls for the first ISP to an Internet interface provided by an alternate access provider. The alternate Internet access provider may or may not provide independent ISP services. The monitoring and redirection is provided on a substantially continuous basis, to dynamically and proactively provide overload protection. The parameters may be dynamically updated based on conditions as determined from the monitoring.

White '490 provides an architecture for such a system in Figure 7, reproduced

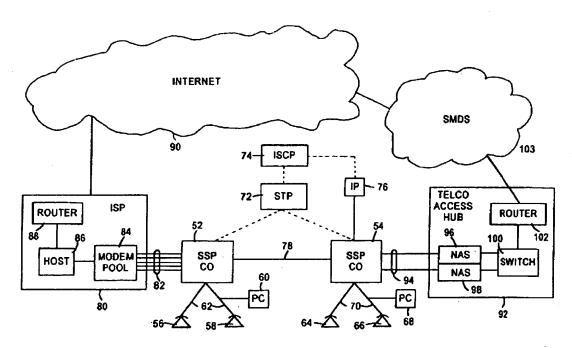


Figure 7

During normal operation, a dial-up Internet user accesses her ISP (80) through switch (52) by means of hunt group (82). (See, col. 14, ln. 47-col. 15, ln. 12.) As is well understood, once a dial-up computer hits modern pool (84) and makes connection to the Internet through host (86), it is no longer part of the hunt group.

To ease the load on ISP (80), certain calls are routed through the telephone system (78) to an alternate access hub (92).

When the ISCP queries the ISP command table in the IP at step S4 in FIG. 5, and determines that the flag is set for redirection, the ISCP immediately transmits an appropriate command either to the originating SSP end office via the SS7 signaling network. Upon receipt of the signal the SSP originating end office switch redirects subsequent calls to the ISP number to an alternate route. In this example the alternate route is to the Internet Protocol or IP transport provided by the TELCO via its TELCO access hub 92 in FIG. 7. The ISP subscriber is then provided with the requested Internet access via this alternate route.

White '490, col. 18, ln. 59-col. 19, ln. 2 (emphasis added).

Thus, at no time, is any call placed over the Internet, let alone a multi-line hunt group. The calls in White '490 are placed to get on the Internet – they are dial-up access requests.

# B. Claims 1-3, 5-7, 10-14, and 31 Are Patentable Under 35 U.S.C. § 103(a) Over White '890 and White '490

Claim 1 provides a communication system including an IP-enabled communication network, at least one remote site connected to the communication network and at least one service site connected to the communication network. The remote site includes a plurality of subscribers, a switch interconnecting the plurality of subscribers, at least one multiline hunt group connected to the switch and a gateway. Each multi-line hunt group includes a plurality of voice communication lines and at least one signaling line carrying signaling data. The gateway receives the plurality of voice communication lines and the at least one signaling line for each multi-line hunt group and interfaces each multi-line hunt group and the

communication network. Each service site includes a service platform providing voice services, a switch connected to the service platform, at least one multi-line hunt group connected to the switch, and a gateway interfacing each multi-line hunt group and the communication network.

The Examiner rejected claim 1 as an obvious combination of White '490 and White '890. The Examiner uses White '890 as the base reference, in particular Figure 8, which was described above.

The Examiner first asserts that the "telephone 100" in White '890 is Appellants' subscribers. Unlike White '890, Appellants' claim 1 provides for a plurality of subscribers, a switch interconnecting the plurality of subscribers, a gateway and at least one multi-line hunt group connected to the switch and the gateway. The telephones in White '890 are connected to a local exchange carrier (LEC 102) in a conventional fashion — without any multi-line hunt group — as described above.

The Examiner also asserts that the "end office switch 107" of White '890 is Appellants' "switch interconnecting the plurality of subscribers" and that the "gateway router 104" of White '890 is Appellants' "gateway receiving the plurality of voice communication lines and the at least one signaling line for each multi-line hunt group, the gateway interfacing each multi-line hunt group and the communication network" as provided in claim 1. This must mean that the "connection between the router and end office switch" 108 of White '890 is Appellants' multi-line hunt group. The only reference to this connection in the entirety of White '890 is reproduced above. There is no teaching or suggestion that this connection is anything other than a standard T1 trunk.

The Examiner, recognizing this shortcoming in White '890 but ignoring the failure in White '890 to even acknowledge the problem solved by Appellants, attempts to shoehorn White '490 into White '890.

The difference between Appellants invention and White'890 reference is that the gateways interfaces a hunt group in lieu of T1 trunks 108 and 119.

However, White'490 discloses in the same field of endeavor, an Internet access plant 80 connected to a central office switch 52 via a hunt group of lines 82. See column 15, lines 6-13.

The passage cited by the Examiner is reproduced as follows:

The Internet access plant of a public Internet service provider (ISP) 80 is connected to the central office switch 52 via a hunt group of lines 82. The ISP facility may be of the nature of that shown in FIG. 1 but is here simplified by showing only the representation of a modem pool 84, host or server 86, and router 88. The router 88 is connected to a gateway router (not shown) to connect to the Internet shown as a cloud 90.

As discussed above, White '490 deals with the problem of overload protection for the Internet service provider. The hunt group identified by the Examiner terminates in a modem pool for gaining access to the Internet, not for sending a multi-line hunt group over the Internet.

White '490 discloses using the AIN signaling system, and not the Internet access plant, to handle call signaling for relieving congestion on the Internet service provider. This is described generally at column 6, lines 27-34, reproduced as follows:

The present invention provides an arrangement in a public telephone network offering intelligent services for automatically and dynamically redirecting calls to a provider of access to an internetwork of computer networks such as the Internet. The present invention takes advantage of the call processing and intelligence gathering functions of an intelligent network, also referred to as an advanced intelligent network (AIN), to provide a flexible arrangement to react to the load being delivered to an Internet access provider.

A simplified flow diagram for the operation of White '490 is shown in Figure 8, which is described from column 17, line 34, through column 18, line 23, which ends with the following paragraph:

At step S4 the ISCP determines from ISP current command table in the IP the action to be taken with respect to the call in progress. The ISCP thereupon sends a TCAP response to the originating SSP end office at step S5. At step S6

the originating SSP executes the command. Such execution may comprise connecting the call to the ISP dial-up number, redirecting the call via an alternate route, or sending a busy signal to the caller. If the action taken comprises redirecting the call, this is undertaken in conjunction with action in the AIN as previously described.

Once again, all signaling takes place within the AIN. There is no teaching or suggestion that a multi-line hunt group, including associated signaling, is sent over the Internet.

Neither White '490 nor White '890 teach or fairly suggest Appellants' gateway "receiving the plurality of voice communication lines and the at least one signaling line for each multi-line hunt group" and "interfacing each multi-line hunt group and the communication network" as provided in claim 1. Claim 1 is patentable over any combination of White '490 and White '890. Claims 2, 3, 5-7 and 10-14 depend from claim 1 and are therefore also patentable.

Independent claim 31 provides a communication system including an IP-enabled communication network, at least one remote site connected to the communication network and at least one service site connected to the communication network. Each remote site includes a switch interconnecting a plurality of subscribers, at least one multi-line hunt group connected to the switch and at least one wide area network access device interfacing each multi-line hunt group and the communication network. Each multi-line hunt group includes a plurality of voice communication lines and at least one signaling line carrying signaling data. Each service site includes a service platform providing voice services, a switch connected to the service platform, at least one multi-line hunt group connected to the switch, and at least one wide area network access device interfacing each multi-line hunt group and the communication network. As described above, neither White '490 nor White '890 teach or fairly suggest Appellants' network access device interfacing an IP-enabled communication network with a multi-line hunt group including at least one signaling line carrying signaling data.

# C. Claims 15-18, 20-26, 28-30, and 32 Are Patentable Under 35 U.S.C. § 103(a) Over "Admitted Prior Art," White '890 and White '490

Independent claim 15 provides a communication system for transmitting audible messages over an IP-enabled communication network. The system includes a locality of subscriber units, a switch routing traffic outside of the locality of subscriber units over at least one multi-line hunt group, and a gateway in communication with each multi-line hunt group and the communication network. Each multi-line hunt group includes a plurality of voice communication lines and at least one signaling line carrying signaling data associated with calls through the voice communication lines. The gateway converts voice information received over each communication line and signaling data received over each signaling line into a data format acceptable by the communication network.

The Examiner rejected claim 15 as being an obvious combination of "Admitted prior art," White '490 and White '890. The Examiner admits that the "admitted prior art does not disclose converting voice and signaling received over the hunt group lines." The Examiner proposes White '890 to supply this teaching at page 10, reproduced as follows:

However, White '890 discloses converting voice and signaling to a TCP/IP packet over the data network 106 using a gateway router 104. See column 8, lines 58-67 and column 9, lines 1-5.

The passage cited by the Examiner is reproduced as follows:

According to the invention, the Internet address database 112 reads the area code and NXX number of the dialed digits and extracts from its tables the IP address of the gateway router 116, which serves the called area and exchange via LEC 114. This IP address is delivered to the gateway router 104. The router uses the address to dispatch across the Internet 106 a TCP/IP packet which bears that IP address and which also includes the complete set of dialed telephone number digits identifying the called telephone station 118.

The destination gateway router 116 in turn delivers the information in that packet to the LEC 114. Since the information includes the complete telephone number of the telephone station 118, the LEC 114 is in command of all necessary data to

connect to that station. This methodology permits the establishment of the call without requiring communication between the LECs 102 and 114 other than through the Internet, and without requiring the maintenance of a full global IP address database on the source end at 112.

As illustrated in Figure 8 of White '890, this passage describes setup for a single call initiated from a single telephone 100 over a single connection loop 103. The Examiner recognizes this deficiency in White '890 by attempting to combine White '490 on page 10, reproduced as follows:

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to have the conversion method of White '890 used in the ISP of White '490 so that the admitted prior art voice services can be extended using the Internet. The advantage would be the provisioning of extended voice services using the Internet while taking advantage of the already established hunt group infrastructures.

White '490 discloses selecting between different Internet service providers using only AIN for signaling. There is no suggestion for using the Internet to process voice signals or signaling information from a multi-line hunt group. White '890 discloses only processing single phone calls. There is no teaching or suggestion for signaling required by calls switched onto a line in a multi-line hunt group (where the line entering the gateway may have a different number than the original calling number).

In addition, neither White '490, White '890 or "Admitted prior art" teaches or suggests in any manner a gateway which handles multiple voice lines and the signaling unique to a multi-line hunt group. The Examiner has therefore failed to establish a prima facie case of obviousness. Claims 16-18 and 20-22 depend from claim 15 and are therefore also patentable.

Independent claim 23 provides a method of communicating over an IP-enabled communication network. Information is received from at least one of a plurality of subscribers. At least one of a plurality of voice communication lines and at least one signaling line in a multi-line hunt group are determined for carrying the received information and

associated signaling. Information on each of the voice communication lines and signaling lines is formatted into a format compatible with the communication network. The formatted information is sent over the communication network.

The Examiner rejected claim 23 using the same argument as for claim 15. Appellants believe that claim 23 is patentable for the same reasons as provided for claim 15 above. Claims 24-26 and 28-30 depend from claim 23 and are therefore also patentable.

Independent claim 32 provides a communication system for transmitting audible messages over an IP-enabled communication network including a locality of subscriber units, a switch interconnecting the subscriber units and at least one wide area network access device in communication with each multi-line hunt group. The switch routes traffic outside of the locality of subscriber units over at least one multi-line hunt group including a plurality of voice communication lines and at least one signaling line carrying signaling data. Each wide area network access device converts voice information received over each communication line and signaling data received over each signaling line into a data format acceptable by the communication network.

The Examiner rejected claim 32 using the same argument as used in rejecting claim 15. Appellants believe that claim 32 is patentable for the same reasons provided for claim 15 above.

Atty. Docket No. 1756 (USW0587PUS)

U.S.S.N. 09/668,652

The fee of \$500 as applicable under the provisions of 37 C.F.R. § 41.20(b)(2) is enclosed. Please charge any additional fee or credit any overpayment in connection with this filing to our Deposit Account No. 21-0456.

Respectfully submitted,

CHRIS E. JOHNSON et al.

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Enclosure - Appendices

Page 1

Appendix

### VIII. CLAIMS APPENDIX

Claims 1-3, 5-7, 10-18, 20-26 and 28-32, pending in this application, are reproduced as follows:

1	1. A communicat	ion system comprising:
2	an IP-enabled commu	nication network;
3	at least one remote sit	e connected to the communication network, the
4	remote site comprising:	
5	(a) a plura	lity of subscribers,
6	(b) a switc	h interconnecting the plurality of subscribers,
7 .	(c) at least	one multi-line hunt group connected to the
8	switch,	each multi-line hunt group comprising a
9	pluralit	y of voice communication lines and at least one
10	signalin	g line carrying signaling data, and
11	(d) a gat	eway receiving the plurality of voice
12	commu	nication lines and the at least one signaling line
13	for each	multi-line hunt group, the gateway interfacing
14	each m	ulti-line hunt group and the communication
15	network	x; and
16	at least one service site	connected to the communication network, the
17	service site comprising:	
18	(e) a service	e platform providing voice services;

19		(f)	a switch connected to the service platform;
20		(g)	at least one multi-line hunt group connected to the
21			switch, and
22		(h)	a gateway interfacing each multi-line hunt group and
23			the communication network.
1	2.	A co	mmunication system as in claim 1 wherein the service
2	platform comprises	a voice	mail platform.
1	3.	A co	mmunication system as in claim 1 wherein the service
2	platform comprises	a unifie	ed messaging platform.
1	4.	(canc	celed)
1	5.	A c	ommunication system as in claim 1 wherein the
2	communication netv	vork ca	rries voice over IP (VoIP).
1	6.	A c	ommunication system as in claim 1 wherein the
2	communication netv	vork ca	rries voice over frame relay (VoFR).

1 7. A communication system as in claim 1 wherein the 2 communication network carries voice over ATM (VoATM). 1. 8. (canceled) 1 9. (canceled) 1 10. A communication system as in claim 1 wherein each gateway 2 converts voice received over communication lines and the signaling data received over each signaling line into a data format acceptable by the communication network. 3 1 11. A communication system as in claim 1 wherein each gateway 2 converts line signaling protocols into a format acceptable by the communication 3 network and passes the converted line signaling protocols to at least one service site. 12. A communication system as in claim 1 wherein each gateway 1 2 implements a tunneling scheme with at least one gateway at a different site to 3 exchange the signaling data.

1	13. A communication system as in claim 1 wherein each gateway
2	compresses and decompresses voice information for reduced communication network
3	bandwidth.
1	14. A communication system as in claim 1 wherein each gateway
2	performs DS-0 mapping to map individual hunt group members across the
3	communication network.
1	15. A communication system for transmitting audible messages
2	over an IP-enabled communication network comprising:
3	a locality of subscriber units;
4	a switch interconnecting the subscriber units, the switch routing traffic
5	outside of the locality of subscriber units over at least one multi-line hunt group, each
6	multi-line hunt group including a plurality of voice communication lines and at least
7	one signaling line carrying signaling data associated with calls through the plurality
8	of voice communication lines; and
9	a gateway in communication with each multi-line hunt group and the
10	communication network, the gateway converting voice information received over

each communication line and signaling data received over each signaling line into a

data format acceptable by the communication network.

Appendix

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12

1	. 10.	A communication system as in claim 15 wherein the gateway			
2	formats data for voice over IP (VoIP).				
1	17.	A communication system as in claim 15 wherein the gateway			
2	formats data for vo	oice over frame relay network (VoFR).			
1	18.	A communication system as in claim 15 wherein the gateway			
2	formats data for voice over ATM (VoATM).				
1	19.	(canceled)			
1	20.	A communication system as in claim 15 wherein the gateway			
2	implements a tunn	eling scheme with at least one gateway at a different site to			
3	exchange signaling	data.			
1	21.	A communication system as in claim 15 wherein the gateway			
2	compresses and dec	ompresses voice information for reduced communication network			
3	bandwidth.				

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1	22. A communication system as in claim 13 wherein the gateway
2	performs DS-0 mapping to map individual hunt group members across the
3	communication network.
1	23. A method of communicating over an IP-enabled communication
2	network comprising:
3	receiving information from at least one of a plurality of subscribers;
4	determining at least one of a plurality of voice communication lines
5	and at least one signaling line in a multi-line hunt group to carry the received
6	information and associated signaling;
7	formatting information on each of the voice communication lines and
8	signaling lines into a format compatible with the communication network; and
9	sending the formatted information over the communication network.
1	24. A method of communicating over an IP-enabled communication
2	network as in claim 23 further comprising:
3	receiving the formatted information over the communication network;
1	reformatting the converted information back into the original format
5	for transmission over at least one of a plurality of voice communication lines and at
5	least one signaling line in a multi-line hunt group; and
7	sending the reformatted information over a multi-line hunt group.

1	25. A method of communicating over an IP-enabled communication
2	network as in claim 23 wherein the reformatted information is sent to a service
3	platform comprising a voicemail platform.
1	26. A method of communicating over an IP-enabled communication
2.	network as in claim 23 wherein the reformatted information is sent to a service
3	platform comprising a unified messaging platform.
1	27. (canceled)
1	28. A method of communicating over an IP-enabled communication
2	network as in claim 23 wherein the communication network carries voice over IP
3	(VoIP).
1	29. A method of communicating over an IP-enabled communication
2	network as in claim 23 wherein the communication network carries voice over frame
3	relay (VoFR).

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1	30.	A me	ethod of communicating over an IP-enabled communication	
2	network as in claim	23 whe	rein the communication network carries voice over ATM	
3	(VoATM).			
1	31.	A co	mmunication system comprising:	
2	an II	P-enable	ed communication network;	
3	at le	at least one remote site connected to the communication network, the		
4	remote site compris	sing:		
5		(a)	a plurality of subscribers,	
6		(b)	a switch interconnecting the plurality of subscribers,	
7		(c)	at least one multi-line hunt group connected to the	
8			switch, each multi-line hunt group comprising a	
9			plurality of voice communication lines and at least one	
10	•		signaling line carrying signaling data, and	
11		(d)	at least one wide area network access device	
12			interfacing each multi-line hunt group and the	
13			communication network; and	
14	at lea	st one s	ervice site connected to the communication network, the	
15	service site compris	ing:		
16		(e)	a service platform providing voice services;	
17		(f)	a switch connected to the service platform;	

18	(g) at least one multi-line hunt group connected to the
19	switch, and
20	(h) at least one wide area network access device
21	interfacing each multi-line hunt group and the
22	communication network.
1	32. A communication system for transmitting audible messages
2	over an IP-enabled communication network comprising:
3	a locality of subscriber units;
4	a switch interconnecting the subscriber units, the switch routing traffic
5	outside of the locality of subscriber units over at least one multi-line hunt group, each
6	multi-line hunt group including a plurality of voice communication lines and at least
7	one signaling line carrying signaling data; and
8	at least one wide area network access device in communication with
9	each multi-line hunt group and the communication network, the wide area network
10	access device converting voice information received over each communication line
11	and signaling data received over each signaling line into a data format acceptable by
12	the communication network.

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Atty. Docket No. 1756 (USW0587PUS)

#### IX. EVIDENCE APPENDIX

None.

Appendix

Atty. Docket No. 1756 (USW0587PUS)

### X. RELATED PROCEEDINGS APPENDIX

None.

Appendix Page 11

## **EXHIBIT B**



### United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandra, Virginia 2231 L 1450
Www.uspio.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DUCKET NO.	CONTRACT
09/668,652	09/22/2000	Chris E. Johnson	1756 (USW0587PUS)	CONFIRMATION NO.
QWEST CO	12/13/2005  MMUNICATIONS INTENTELLECTUAL PROPERT	RNATIONAL INC	EXAM	INER
1801 CALIFO DENVER, CO	RNIA STREET, SUITE 380	1 Y GROUP 00	ART UNIT	PAPER NUMBER

DATE MAILED: 12/13/2005

Dui-1-13-06

Please find below and/or attached an Office communication concerning this application or proceeding.

. JAN. 9. 2006 1:07PM TCWNSEND & TOWNSEI	N D	NO. 029'—P. 3/5—			
. JAN. 3. 2000 1.07 (M) TOWNSEND & OWNSEN	(	NO. 0291—P. 3.75—			
	Application No.	Applicant(s)			
Notification of Non-Compliant Appeal Brief	09/668,652	JOHNSON ET AL.			
(37 CFR 41.37)	Examiner	Art Unit			
	AHMED ELALLAM	2668			
The MAILING DATE of this communication app	ears on the cover sheet with the	correspondence address			
The Appeal Brief filed on <u>22 September 2005</u> is defective for failure to comply with one or more provisions of 37 CFR 41.37.					
To avoid dismissal of the appeal, applicant must file anamended brief or other appropriate correction (see MPEP 1205.03) within ONE MONTH or THIRTY DAYS from the mailing date of this Notification, whichever is longer. EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR 1.136.					
The brief does not contain the items required ur heading or in the proper order.					
2. The brief does not contain a statement of the statement canceled), or does not identify the appealed clar	The brief does not contain a statement of the status of all claims, (e.g., rejected, allowed, withdrawn, objected to, canceled), or does not identify the appealed claims (37 CFR 41.37(c)(1)(iii)).				
3. At least one amendment has been filed subseque statement of the status of each such amendment.	At least one amendment has been filed subsequent to the final rejection, and the brief does not contain a statement of the status of each such amendment (37 CFR 41.37(c)(1)(iv)).				
claims involved in the appeal, referring to the sp by reference characters; and/or (b) the brief fails appeal and for each dependent claim argued se 35 U.S.C. 112, sixth paragraph, and/or (2) set fo as corresponding to each claimed function with i	(a) The brief does not contain a concise explanation of the subject matter defined in each of the independent claims involved in the appeal, referring to the specification by page and line number and to the drawings, if any, by reference characters; and/or (b) the brief fails to: (1) identify, for each independent claim involved in the appeal and for each dependent claim argued separately, every means plus function and step plus function under 35 U.S.C. 112, sixth paragraph, and/or (2) set forth the structure, material, or acts described in the specification as corresponding to each claimed function with reference to the specification by page and line number, and to the drawings, if any, by reference characters (37 CFR 41.37(c)(1)(v)).				
5. The brief does not contain a concise statement of 41.37(c)(1)(vi))					
6. The brief does not present an argument under a s 41.37(c)(1)(vii)).	2 The analysis and the second and all and a sobalate heading to lead in digning of referential of appeal (2) CLK				
7. The brief does not contain a correct copy of the a 41.37(c)(1)(viii)).					
other evidence entered by the examiner and reli	other evidence entered by the examiner and relied upon by appellant in the appeal, along with a statement setting forth where in the record that evidence was entered by the examiner, as an appendix				
9. The brief does not contain copies of the decision identified in the Related Appeals and Interference 41.37(c)(1)(x)).	s rendered by a court or the Boa es section of the brief as an appe	rd in the proceeding andix thereto (37 CFR			
10. Other (including any explanation in support of the	above items):				

Application/Control Number: 09/668,652

Art Unit: 2668

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NOTIFICATION OF NON-COMPLIANCE WITH THE REQUIREMENTS OF 37 CFR 41.37(c)

The brief does not contain a concise explanation of the subject matter defined in each of the independent claims involved in the appeal, referring to the specification by page and line number, and to the drawing, if any, by reference characters; and/or does not identify the structure, material, or acts described in the specification as corresponding to each claimed function for every means plus function and step plus function for each independent claim involved in the appeal and for each dependent claim argued separately by reference to the specification by page and line number, and to the drawing, if any, by reference characters, as required by 37 CFR 41.37(c)(1)(v).

More specifically, the brief does not refer to the specification by page and line number, and to the drawing, if any, by reference characters for the independent claims 1, 15, 23, 31 and 32 involved in the appeal.

#### Conclusion

Appellant is required to comply with provisions of 37 CFR 41.37(c). To avoid dismissal of the appeal, Appellant must comply with the provisions of 37 CFR 41.37(c) within ONE MONTH or THIRTY DAYS, whichever is longer, from the mailing of this communication. Extensions of time may be granted under 37 CFR 1.136.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AHMED ELALLAM whose telephone number is (571) 272-3097. The examiner can normally be reached on 9-5:30.

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Art Unit: 2668

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on (571) 272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AHMED ELALLAM Examiner Art Unit 2668 12/9/2005

> CHIEH M. FAN SUPERVISORY PATENT EXAMINER

### EXHIBIT C

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

CHRIS E. JOHNSON et al.

Group Art Unit: 2662

Examiner: Ahmed Elallam

Serial No.: 09/668,652

Filed: September 22, 2000

For: Extended Multi-Line Hunt Group Communications

Attorney Docket No.: 1756 (USW0587PUS)

#### AMENDED APPEAL BRIEF UNDER 37 C.F.R. § 41.37

Mail Stop Appeal Brief - Patents Commissioner for Patents U.S. Patent & Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

This is an Appeal Brief from the final rejection of claims 1-3, 5-7, 10-18, 20-26, and 28-32 of the Office Action mailed on January 26, 2005, for the above-identified patent application.

#### CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this paper, including all enclosures referred to herein, is being deposited with the United States Postal Service as first-class mail, postage pre-paid, in an envelope addressed to: Mail Stop Appeal Brief Patents, Commissioner for Patents, U.S. Patent & Trademark Office, P.O. Box 1450, Alexandrica VA 22313, 1450 and:

January 17, 2006
Date of Deposit

Mark D. Chuey, Ph.D. Name of Person Signing

Signature

#### I. REAL PARTY IN INTEREST

The real party in interest is Qwest Communications International Inc. ("Assignee"), a corporation organized and existing under the laws of the state of Delaware, and having a place of business at 1801 California Street, Denver, Colorado, 80202, as set forth in the assignment recorded in the U.S. Patent and Trademark Office on September 22, 2000, at Reel 011139/Frame 0360.

#### II. RELATED APPEALS AND INTERFERENCES

There are no appeals or interferences known to the Appellant, the Appellant's legal representative, or the Assignee which will directly affect or be directly affected by or have a bearing on the Board's decision in the pending appeal.

#### III. STATUS OF CLAIMS

Claims 1-3, 5-7, 10-18, 20-26, and 28-32 are pending in this application. Claims 1-3, 5-7, 10-18, 20-26, and 28-32 have been rejected and are the subject of this appeal.

#### IV. STATUS OF AMENDMENTS

No amendment after final was requested.

#### V. SUMMARY OF CLAIMED SUBJECT MATTER

Multi-line hunt groups include a set of telecommunication lines organized such that if one line is busy, another line is hunted until a free line is found. Typically, at least one line is dedicated to handling out-of-band signaling for the remaining communication lines. Problems with multi-line hunt groups arise when users are located a great distance away from service sites. Subscribers accessing a remote service may then incur long distance charges. Such charges increase the cost of the service, making the service less attractive to users.

Appellants' invention transports voice traffic and associated signaling over cost insensitive packet communication networks. This permits centrally located service platforms without prohibitive long distance costs to remote users. Appellants' invention includes an IPenabled communication network (see, for example, page 5, lines 25-29; Figure 2, reference 52; Figure 3, reference 52), at least one service site (see, for example, page 5, lines 16-22; page 7, lines 8-29; Figure 2, reference 24; Figure 3, reference 72) connected to the communication network, and at least one site (see, for example, page 6, lines 3-6; page 7, lines 8-10; Figure 2, reference 22; Figure 3, reference 22) connected to the communication network remote from the service site. The remote site includes a plurality of subscribers (page 4, line 24-page 5, line 4; Figure 2, reference 28; Figure 3, reference 28), a switch (see, for example, page 6, lines 6-9; page 7, lines 10-16; Figure 2, reference 30; Figure 3, reference 30) interconnecting the plurality of subscribers, at least one multi-line hunt group (see, for example, page 1, lines 6-10; page 5, lines 5-15; page 6, lines 5-6; page 7, lines 16-29; Figure 2, reference 26; Figure 3, reference 26) connected to the switch, and a gateway or network access device (see, for example, page 6, line 4-page 7, line 5; page 7, 16-29; Figure 2, reference 54, Figure 3, reference 74). Each multi-line hunt group includes a plurality of voice communication lines (see, for example, page 5, lines 5-7; page 6, lines 7-12; page 7, lines 12-19; Figure 2, reference 32; Figure 3, reference 32) and at least one signaling line (see, for example, page 5, lines 8-15; page 6, lines 7-12; page 7, lines 12-19; Figure 2, reference 34; Figure 3, reference 34) carrying signaling data. The gateway receives the plurality of voice communication lines and the at least one signaling line for each multi-line hunt group and

interfaces each multi-line hunt group and the communication network. Each service site includes a service platform (see, for example, page 5, lines 16-22; page 7, lines 20-25; Figure 2, reference 36, Figure 3, reference 76) providing voice services, a switch (see, for example, page 6, lines 6-9; page 7, lines 10-16; Figure 2, reference 30; Figure 3, reference 30) connected to the service platform, at least one multi-line hunt group connected to the switch, and a gateway or network access device (see, for example, page 6, line 4-page 7, line 5; page 7, 16-29; Figure 2, reference 54, Figure 3, reference 78) interfacing each multi-line hunt group and the communication network.

A communication system for transmitting audible messages over an IP-enabled communication network (see, for example, page 5, lines 25-29; Figure 2, reference 52; Figure 3, reference 52) is also provided. The system includes a locality of subscriber units (see, for example, page 4, line 24-page 5, line 4; Figure 2, reference 28; Figure 3, reference 28), a switch (see, for example, page 6, lines 6-9; page 7, lines 10-16; Figure 2, reference 30; Figure 3, reference 30) routing traffic outside of the locality of subscriber units over at least one multi-line hunt group (see, for example, page 1, lines 6-10; page 5, lines 5-15; page 6, lines 5-6; page 7, lines 16-29; Figure 2, reference 26; Figure 3, reference 26), and a gateway (see, for example, page 6, line 4-page 7, line 5; page 7, 16-29; Figure 2, reference 54, Figure 3, references 74, 78) in communication with each multi-line hunt group and the communication network. Each multi-line hunt group includes a plurality of voice communication lines (see, for example, page 5, lines 5-7; page 6, lines 7-12; page 7, lines 12-19; Figure 2, reference 32; Figure 3, reference 32) and at least one signaling line (see, for example, page 5, lines 8-15; page 6, lines 7-12; page 7, lines 12-19; Figure 2, reference 34; Figure 3, reference 34) carrying signaling data associated with calls through the voice communication lines. The gateway converts voice information received over each communication line and signaling data received over each signaling line into a data format acceptable by the communication network.

A method of communicating over an IP-enabled communication network (see, for example, page 5, lines 25-29; Figure 2, reference 52; Figure 3, reference 52) is also provided. Information is received from at least one of a plurality of subscribers (see, for

example, page 4, line 24-page 5, line 4; Figure 2, reference 28; Figure 3, reference 28). At least one of a plurality of voice communication lines (see, for example, page 5, lines 5-7; page 6, lines 7-12; page 7, lines 12-19; Figure 2, reference 32; Figure 3, reference 32) and at least one signaling line (see, for example, page 5, lines 8-15; page 6, lines 7-12; page 7, lines 12-19; Figure 2, reference 34; Figure 3, reference 34) in a multi-line hunt group are determined for carrying the received information and associated signaling. Information on each of the voice communication lines and signaling lines is formatted into a format compatible with the communication network. The formatted information is sent over the communication network.

A communication system including an IP-enabled communication network (see, for example, page 5, lines 25-29; Figure 2, reference 52; Figure 3, reference 52), at least one remote site connected to the communication network and at least one service site (see, for example, page 5, lines 16-22; page 7, lines 8-29; Figure 2, reference 24; Figure 3, reference 72) connected to the communication network, is provided. Each remote site includes a switch (see, for example, page 6, lines 6-9; page 7, lines 10-16; Figure 2, reference 30; Figure 3, reference 30) interconnecting a plurality of subscribers (see, for example, page 4, line 24-page 5, line 4; Figure 2, reference 28; Figure 3, reference 28), at least one multi-line hunt group (see, for example, page 1, lines 6-10; page 5, lines 5-15; page 6, lines 5-6; page 7, lines 16-29; page 7, 16-29; Figure 2, reference 26; Figure 3, reference 26) connected to the switch and at least one wide area network access device (see, for example, page 6, line 4-page 7, line 5; Figure 2, reference 54, Figure 3, reference 74) interfacing each multi-line hunt group and the communication network. Each multi-line hunt group includes a plurality of voice communication lines (see, for example, page 5, lines 5-7; page 6, lines 7-12; page 7, lines 12-19; Figure 2, reference 32; Figure 3, reference 32) and at least one signaling line (see, for example, page 5, lines 8-15; page 6, lines 7-12; page 7, lines 12-19; Figure 2, reference 34; Figure 3, reference 34) carrying signaling data. Each service site includes a service platform providing voice services, a switch connected to the service platform, at least one multi-line hunt group connected to the switch, and at least one wide area network access device (see, for

example, page 6, line 4-page 7, line 5; page 7, 16-29; Figure 2, reference 54, Figure 3, reference 78) interfacing each multi-line hunt group and the communication network.

A communication system for transmitting audible messages over an IP-enabled communication network (see, for example, page 5, lines 25-29; Figure 2, reference 52; Figure 3, reference 52) including a locality of subscriber units (see, for example, page 4, line 24-page 5, line 4; Figure 2, reference 28; Figure 3, reference 28) is also provided. A switch (see, for example, page 6, lines 6-9; page 7, lines 10-16; Figure 2, reference 30; Figure 3, reference 30) interconnects the subscriber units and at least one wide area network access device in communication with each multi-line hunt group (see, for example, page 1, lines 6-10; page 5, lines 5-15; page 6, lines 5-6; page 7, lines 16-29; Figure 2, reference 26; Figure 3, reference 26). The switch routes traffic outside of the locality of subscriber units over at least one multiline hunt group including a plurality of voice communication lines (see, for example, page 5, lines 5-7; page 6, lines 7-12; page 7, lines 12-19; Figure 2, reference 32; Figure 3, reference 32) and at least one signaling line (see, for example, page 5, lines 8-15; page 6, lines 7-12; page 7, lines 12-19; Figure 2, reference 34; Figure 3, reference 34) carrying signaling data. Each wide area network access device converts voice information received over each communication line and signaling data received over each signaling line into a data format acceptable by the communication network.

#### VI. GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

The Examiner based his rejections on the following references:

- 1. U.S. Patent No. 6,069,890 to White et al. (henceforth, White '890);
- 2. U.S. Patent No. 5,933,490 to White et al. (henceforth, White '490);
- 3. U.S. Patent Appl. Pub. No. 2003/0165231 to Singh (henceforth, Singh);
- 4. U.S. Patent No. 6,532,235 to Benson et al. (henceforth, Benson);
- 5. U.S. Patent Appl. Pub. No. 2002/0016926 to Nguyen et al. (henceforth, Nguyen);
- 6. Appellants' "admitted prior art."

Claims 1, 2, 5, 10, 11, 13, 14 and 31 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over White '890) in view of White '490. Claim 3 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over White '890 in view of White '490 and in further view of Singh. Claims 6 and 7 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over White '890 in view of White '490 and in further view of Benson. Claim 12 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over White '890 in view of White '490 and in further view of Nguyen. Claims 15, 16, 21-26, 28 and 32 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over "admitted prior art" in view of White '890 and White '490. Claims 17, 18, 29 and 30 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over "admitted prior art" in view of White '890 and White '490 and in further view of Benson. Claim 20 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over "admitted prior art" in view of White '890 and White '490 and in further view of Renson. Claim 20 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over "admitted prior art" in view of White '890 and White '490 and in further view of Renson.

#### VII. <u>ARGUMENT</u>

Claims 1-3, 5-7, 10-18, 20-26 and 28-32 are pending in this application. Appellants believe claims 1-3, 5-7, 9-18, 20-26 and 28-32 are patentable over the cited art and respectfully request review by the Board in light of the following arguments.

#### A. Prior Art Summary

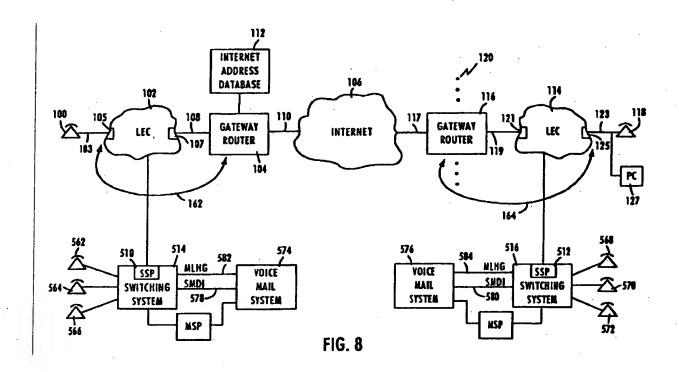
The principal references used in rejecting the pending claims are the White '890 and White '490 patents. While both references mention multi-line hunt groups, neither teaches nor fairly suggests Appellants' invention including sending both multi-line hunt group voice information and signaling over an IP communication network.

#### 1. The White '890 Patent

White '890 is concerned with allowing a single caller to place a call over the Internet, as disclosed in the Abstract.

A system and method for providing telephone type services over the internetwork commonly known as the Internet. Public switched telephone networks utilizing program controlled switching systems are arranged in an architecture with the Internet to provide a methodology for facilitating telephone use of the Internet by customers on an impromptu basis. Provision is made to permit a caller to set-up and carry out a telephone call over the Internet from telephone station to telephone station without access to computer equipment, without the necessity of maintaining a subscription to any Internet service, and without the requiring Internet literacy or knowledge. Calls may be made on an inter or intra LATA, region or state, nationwide or worldwide basis. Billing may be implemented on a per call, timed, time and distance or other basis. Usage may be made of common channel interoffice signaling to set up the call and establish the necessary Internet connections and addressing. Calls may be made from telephone station to telephone station, from telephone station to computer or computer to telephone station.

White '890 includes an architecture for providing voicemail service in Figure 8, which is reproduced as follows:



A telephone (100) for placing calls over the Internet is connected to a local exchange carrier (LEC 102) in a conventional fashion — without any multi-line hunt group — as provided in White '890 at column 7, lines 47-63, reproduced as follows:

A telephone 100 is connected to a Local Exchange Carrier (LEC) 102 by a conventional local loop 103 which normally would consist of a twisted pair to an end office 105. The Local Exchange Carrier or Telco may be either a Bell Operating Company (BOC) or an independent (e.g., GTE) which provide local transmission services. In order to provide telephone services according to the invention the LEC 102 is connected to a gateway router 104 which in turn is connected to the Internet 106. The gateway router 104 may be regarded as an ISP's gateway mechanism. The ISP may or may not be a part of the LEC. In a broad sense the gateway router 104 is equivalent to the router 85-87 shown in FIG. 3. The router 104 is connected

to an end office switch 107 which is the exit from the LEC cloud 102. The connection between the router and end office switch may be a T1 trunk 108.

It is interesting to note that Figure 8 of White '890 includes a multi-line hunt group (MLHG 582). This multi-line hunt group is part of a conventional, prior art system as described by Appellants at page 1, lines 12-24, reproduced as follows:

Typically, a multi-line hunt group is supported by a switch. A plurality of users are connected to the switch. The switch receives incoming calls and determines over which communication line of the multi-line hunt group the call will be transmitted. Multi-line hunt groups may be used at any service site supporting multiple resources. Examples include voicemail services, unified messaging, call centers, fax centers, data distribution centers, and the like.

Problems with multi-line hunt groups arise when users are located a great distance away from service sites. Subscribers accessing a remote service may then incur long distance charges. Such charges increase the cost of the service, making the service less attractive to users. One solution is to provide multiple copies of the service site at local locations. However, service equipment is often expensive, again resulting in increased costs to the user. Further, multiple local sites are difficult to maintain and may still require long distance inter-site communication.

This is exactly what is shown in Figure 8 of White '890. White '890 illustrates separate service equipment at each site. Moreover, it is clear that White '890 discloses shipping telephone calls over the Internet (106) as separate calls, not as part of a multi-line hunt group. Telephone calls are placed into multi-line hunt groups only after they are received at a local switch (512, 514).

#### 2. The White '490 Patent

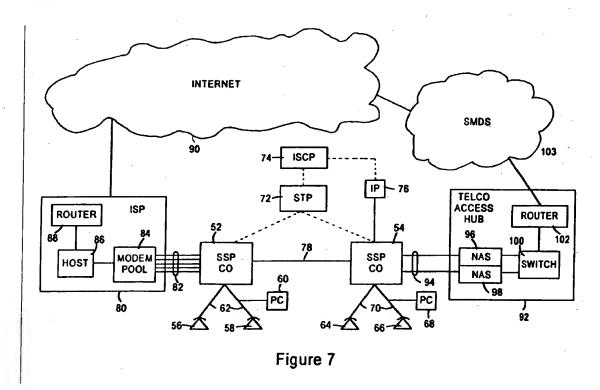
White '490 discloses a technique for balancing the load between dial-up Internet service providers, as described in the Abstract.

Overload protection for dial-up access to the Internet uses a hybrid network including the Internet and an intelligent switched telephone network. A first Internet service provider

(ISP) connects to the Internet through its server and router interface. This ISP also connects to a switching system in the telephone network; to provide dial-up service to user terminals connected to the telephone network. A service control point (SCP) in the intelligent telephone network monitors predetermined traffic criteria resulting from dial-up attempts to call the ISP. Threshold parameters are set in storage associated with the SCP, and at least certain of the measured criteria are substantially continually compared to one or more of these parameters. When one or more of the parameters is equaled or exceeded, the SCP causes redirection of calls for the first ISP to an Internet interface provided by an alternate access provider. The alternate Internet access provider may or may not provide independent ISP services. The monitoring and redirection is provided on a substantially continuous basis, to dynamically and proactively provide overload protection. The parameters may be dynamically updated based on conditions as determined from the monitoring.

White '490 provides an architecture for such a system in Figure 7, reproduced

as follows:



During normal operation, a dial-up Internet user accesses her ISP (80) through switch (52) by means of hunt group (82). (See, col. 14, ln. 47-col. 15, ln. 12.) As is well understood, once a dial-up computer hits modem pool (84) and makes connection to the Internet through host (86), it is no longer part of the hunt group.

To ease the load on ISP (80), certain calls are routed through the telephone system (78) to an alternate access hub (92).

When the ISCP queries the ISP command table in the IP at step S4 in FIG. 5, and determines that the flag is set for redirection, the ISCP immediately transmits an appropriate command either to the originating SSP end office via the SS7 signaling network. Upon receipt of the signal the SSP originating end office switch redirects subsequent calls to the ISP number to an alternate route. In this example the alternate route is to the Internet Protocol or IP transport provided by the TELCO via its TELCO access hub 92 in FIG. 7. The ISP subscriber is then provided with the requested Internet access via this alternate route.

White '490, col. 18, ln. 59-col. 19, ln. 2 (emphasis added).

Thus, at no time, is any call placed over the Internet, let alone a multi-line hunt group. The calls in White '490 are placed to get on the Internet – they are dial-up access requests.

# B. Claims 1-3, 5-7, 10-14, and 31 Are Patentable Under 35 U.S.C. § 103(a) Over White '890 and White '490

Claim 1 provides a communication system including an IP-enabled communication network, at least one remote site connected to the communication network and at least one service site connected to the communication network. The remote site includes a plurality of subscribers, a switch interconnecting the plurality of subscribers, at least one multiline hunt group connected to the switch and a gateway. Each multi-line hunt group includes a plurality of voice communication lines and at least one signaling line carrying signaling data. The gateway receives the plurality of voice communication lines and the at least one signaling line for each multi-line hunt group and interfaces each multi-line hunt group and the

communication network. Each service site includes a service platform providing voice services, a switch connected to the service platform, at least one multi-line hunt group connected to the switch, and a gateway interfacing each multi-line hunt group and the communication network.

The Examiner rejected claim 1 as an obvious combination of White '490 and White '890. The Examiner uses White '890 as the base reference, in particular Figure 8, which was described above.

The Examiner first asserts that the "telephone 100" in White '890 is Appellants' subscribers. Unlike White '890, Appellants' claim 1 provides for a plurality of subscribers, a switch interconnecting the plurality of subscribers, a gateway and at least one multi-line hunt group connected to the switch and the gateway. The telephones in White '890 are connected to a local exchange carrier (LEC 102) in a conventional fashion — without any multi-line hunt group — as described above.

The Examiner also asserts that the "end office switch 107" of White '890 is Appellants' "switch interconnecting the plurality of subscribers" and that the "gateway router 104" of White '890 is Appellants' "gateway receiving the plurality of voice communication lines and the at least one signaling line for each multi-line hunt group, the gateway interfacing each multi-line hunt group and the communication network" as provided in claim 1. This must mean that the "connection between the router and end office switch" 108 of White '890 is Appellants' multi-line hunt group. The only reference to this connection in the entirety of White '890 is reproduced above. There is no teaching or suggestion that this connection is anything other than a standard T1 trunk.

The Examiner, recognizing this shortcoming in White '890 but ignoring the failure in White '890 to even acknowledge the problem solved by Appellants, attempts to shoehorn White '490 into White '890.

The difference between Appellants invention and White'890 reference is that the gateways interfaces a hunt group in lieu of T1 trunks 108 and 119.

However, White'490 discloses in the same field of endeavor, an Internet access plant 80 connected to a central office switch 52 via a hunt group of lines 82. See column 15, lines 6-13.

The passage cited by the Examiner is reproduced as follows:

The Internet access plant of a public Internet service provider (ISP) 80 is connected to the central office switch 52 via a hunt group of lines 82. The ISP facility may be of the nature of that shown in FIG. 1 but is here simplified by showing only the representation of a modern pool 84, host or server 86, and router 88. The router 88 is connected to a gateway router (not shown) to connect to the Internet shown as a cloud 90.

As discussed above, White '490 deals with the problem of overload protection for the Internet service provider. The hunt group identified by the Examiner terminates in a modem pool for gaining access to the Internet, not for sending a multi-line hunt group over the Internet.

White '490 discloses using the AIN signaling system, and not the Internet access plant, to handle call signaling for relieving congestion on the Internet service provider. This is described generally at column 6, lines 27-34, reproduced as follows:

The present invention provides an arrangement in a public telephone network offering intelligent services for automatically and dynamically redirecting calls to a provider of access to an internetwork of computer networks such as the Internet. The present invention takes advantage of the call processing and intelligence gathering functions of an intelligent network, also referred to as an advanced intelligent network (AIN), to provide a flexible arrangement to react to the load being delivered to an Internet access provider.

A simplified flow diagram for the operation of White '490 is shown in Figure 8, which is described from column 17, line 34, through column 18, line 23, which ends with the following paragraph:

At step S4 the ISCP determines from ISP current command table in the IP the action to be taken with respect to the call in progress. The ISCP thereupon sends a TCAP response to the originating SSP end office at step S5. At step S6

the originating SSP executes the command. Such execution may comprise connecting the call to the ISP dial-up number, redirecting the call via an alternate route, or sending a busy signal to the caller. If the action taken comprises redirecting the call, this is undertaken in conjunction with action in the AIN as previously described.

Once again, all signaling takes place within the AIN. There is no teaching or suggestion that a multi-line hunt group, including associated signaling, is sent over the Internet.

Neither White '490 nor White '890 teach or fairly suggest Appellants' gateway "receiving the plurality of voice communication lines and the at least one signaling line for each multi-line hunt group" and "interfacing each multi-line hunt group and the communication network" as provided in claim 1. Claim 1 is patentable over any combination of White '490 and White '890. Claims 2, 3, 5-7 and 10-14 depend from claim 1 and are therefore also patentable.

Independent claim 31 provides a communication system including an IP-enabled communication network, at least one remote site connected to the communication network and at least one service site connected to the communication network. Each remote site includes a switch interconnecting a plurality of subscribers, at least one multi-line hunt group connected to the switch and at least one wide area network access device interfacing each multi-line hunt group and the communication network. Each multi-line hunt group includes a plurality of voice communication lines and at least one signaling line carrying signaling data. Each service site includes a service platform providing voice services, a switch connected to the service platform, at least one multi-line hunt group connected to the switch, and at least one wide area network access device interfacing each multi-line hunt group and the communication network. As described above, neither White '490 nor White '890 teach or fairly suggest Appellants' network access device interfacing an IP-enabled communication network with a multi-line hunt group including at least one signaling line carrying signaling data.

# C. Claims 15-18, 20-26, 28-30, and 32 Are Patentable Under 35 U.S.C. § 103(a) Over "Admitted Prior Art," White '890 and White '490

Independent claim 15 provides a communication system for transmitting audible messages over an IP-enabled communication network. The system includes a locality of subscriber units, a switch routing traffic outside of the locality of subscriber units over at least one multi-line hunt group, and a gateway in communication with each multi-line hunt group and the communication network. Each multi-line hunt group includes a plurality of voice communication lines and at least one signaling line carrying signaling data associated with calls through the voice communication lines. The gateway converts voice information received over each communication line and signaling data received over each signaling line into a data format acceptable by the communication network.

The Examiner rejected claim 15 as being an obvious combination of "Admitted prior art," White '490 and White '890. The Examiner admits that the "admitted prior art does not disclose converting voice and signaling received over the hunt group lines." The Examiner proposes White '890 to supply this teaching at page 10, reproduced as follows:

However, White '890 discloses converting voice and signaling to a TCP/IP packet over the data network 106 using a gateway router 104. See column 8, lines 58-67 and column 9, lines 1-5.

The passage cited by the Examiner is reproduced as follows:

According to the invention, the Internet address database 112 reads the area code and NXX number of the dialed digits and extracts from its tables the IP address of the gateway router 116, which serves the called area and exchange via LEC 114. This IP address is delivered to the gateway router 104. The router uses the address to dispatch across the Internet 106 a TCP/IP packet which bears that IP address and which also includes the complete set of dialed telephone number digits identifying the called telephone station 118.

The destination gateway router 116 in turn delivers the information in that packet to the LEC 114. Since the information includes the complete telephone number of the telephone station 118, the LEC 114 is in command of all necessary data to

connect to that station. This methodology permits the establishment of the call without requiring communication between the LECs 102 and 114 other than through the Internet, and without requiring the maintenance of a full global IP address database on the source end at 112.

As illustrated in Figure 8 of White '890, this passage describes setup for a single call initiated from a single telephone 100 over a single connection loop 103. The Examiner recognizes this deficiency in White '890 by attempting to combine White '490 on page 10, reproduced as follows:

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to have the conversion method of White '890 used in the ISP of White '490 so that the admitted prior art voice services can be extended using the Internet. The advantage would be the provisioning of extended voice services using the Internet while taking advantage of the already established hunt group infrastructures.

White '490 discloses selecting between different Internet service providers using only AIN for signaling. There is no suggestion for using the Internet to process voice signals or signaling information from a multi-line hunt group. White '890 discloses only processing single phone calls. There is no teaching or suggestion for signaling required by calls switched onto a line in a multi-line hunt group (where the line entering the gateway may have a different number than the original calling number).

In addition, neither White '490, White '890 or "Admitted prior art" teaches or suggests in any manner a gateway which handles multiple voice lines and the signaling unique to a multi-line hunt group. The Examiner has therefore failed to establish a prima facie case of obviousness. Claims 16-18 and 20-22 depend from claim 15 and are therefore also patentable.

Independent claim 23 provides a method of communicating over an IP-enabled communication network. Information is received from at least one of a plurality of subscribers. At least one of a plurality of voice communication lines and at least one signaling line in a multi-line hunt group are determined for carrying the received information and

associated signaling. Information on each of the voice communication lines and signaling lines is formatted into a format compatible with the communication network. The formatted information is sent over the communication network.

The Examiner rejected claim 23 using the same argument as for claim 15. Appellants believe that claim 23 is patentable for the same reasons as provided for claim 15 above. Claims 24-26 and 28-30 depend from claim 23 and are therefore also patentable.

Independent claim 32 provides a communication system for transmitting audible messages over an IP-enabled communication network including a locality of subscriber units, a switch interconnecting the subscriber units and at least one wide area network access device in communication with each multi-line hunt group. The switch routes traffic outside of the locality of subscriber units over at least one multi-line hunt group including a plurality of voice communication lines and at least one signaling line carrying signaling data. Each wide area network access device converts voice information received over each communication line and signaling data received over each signaling line into a data format acceptable by the communication network.

The Examiner rejected claim 32 using the same argument as used in rejecting claim 15. Appellants believe that claim 32 is patentable for the same reasons provided for claim 15 above.

No fee is believed due by filing this amended Appeal Brief. Please charge any additional fee or credit any overpayment in connection with this filing to our Deposit Account No. 21-0456.

Respectfully submitted,

CHRIS E. JOHNSON et al.

y: / Wix

Mark D. Chuey, Ph.D. Registration No. 42,415

Attorney/Agent for Appellant

Date: <u>January 17, 2006</u>

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Enclosure - Appendices

#### VIII. CLAIMS APPENDIX

Claims 1-3, 5-7, 10-18, 20-26 and 28-32, pending in this application, are reproduced as follows:

1	1. A com	munication system comprising:	
2	an IP-enabled communication network;		
3	at least one ren	note site connected to the communication network, the	
4	remote site comprising:		
5	(a)	a plurality of subscribers,	
6	(b)	a switch interconnecting the plurality of subscribers,	
7	(c)	at least one multi-line hunt group connected to the	
8		switch, each multi-line hunt group comprising a	
9		plurality of voice communication lines and at least one	
10		signaling line carrying signaling data, and	
11	(d)	a gateway receiving the plurality of voice	
12		communication lines and the at least one signaling line	
13		for each multi-line hunt group, the gateway interfacing	
14		each multi-line hunt group and the communication	
15		network; and	
16	at least one ser	vice site connected to the communication network, the	
17	service site comprising:		
18	(e)	a service platform providing voice services;	

19		(f)	a switch connected to the service platform;
20		(g)	at least one multi-line hunt group connected to the
21			switch, and
22		(h)	a gateway interfacing each multi-line hunt group and
23			the communication network.
1	2.	A coı	mmunication system as in claim 1 wherein the service
2	platform comprises	a voicer	mail platform.
1	3.	A con	mmunication system as in claim 1 wherein the service
2	platform comprises	a unifie	ed messaging platform.
1 .	4.	(cance	eled)
1	<b>5.</b>	A co	ommunication system as in claim 1 wherein the
2	communication netv	vork car	rries voice over IP (VoIP).
	•		
1	6.	A co	ommunication system as in claim 1 wherein the
2	communication netw	ork car	ries voice over frame relay (VoFR).

1	7. A communication system as in claim 1 wherein the
2	communication network carries voice over ATM (VoATM).
1	8. (canceled)
1	9. (canceled)
1	10. A communication system as in claim 1 wherein each gateway
2	converts voice received over communication lines and the signaling data received
3	over each signaling line into a data format acceptable by the communication network
1	11. A communication system as in claim 1 wherein each gateway
2	converts line signaling protocols into a format acceptable by the communication
3	network and passes the converted line signaling protocols to at least one service site.
1	12. A communication system as in claim 1 wherein each gateway
2	implements a tunneling scheme with at least one gateway at a different site to
2	exchange the signaling data

1	13. A communication system as in claim 1 wherein each gateway
2	compresses and decompresses voice information for reduced communication network
3	bandwidth.
1	14. A communication system as in claim 1 wherein each gateway
2	performs DS-0 mapping to map individual hunt group members across the
3	communication network.
1	15. A communication system for transmitting audible messages
2	over an IP-enabled communication network comprising:
3	a locality of subscriber units;
4	a switch interconnecting the subscriber units, the switch routing traffic
5	outside of the locality of subscriber units over at least one multi-line hunt group, each
6	multi-line hunt group including a plurality of voice communication lines and at least
7	one signaling line carrying signaling data associated with calls through the plurality
8	of voice communication lines; and
9	a gateway in communication with each multi-line hunt group and the
10	communication network, the gateway converting voice information received over
11	each communication line and signaling data received over each signaling line into a
12	data format acceptable by the communication network.

1	16.	A communication system as in claim 15 wherein the gateway
2	formats data for vo	ice over IP (VoIP).
1	17.	A communication system as in claim 15 wherein the gateway
2	formats data for vo	ice over frame relay network (VoFR).
•		
1	18.	A communication system as in claim 15 wherein the gateway
2	formats data for vo	ice over ATM (VoATM).
•		
1	19.	(canceled)
٠		
1	20.	A communication system as in claim 15 wherein the gateway
2	implements a tunne	eling scheme with at least one gateway at a different site to
3	exchange signaling	data.
1	21.	A communication system as in claim 15 wherein the gateway
2	compresses and deco	ompresses voice information for reduced communication network
3	bandwidth.	

I	22. A communication system as in claim 13 wherein the gateway
2	performs DS-0 mapping to map individual hunt group members across the
3	communication network.
1	23. A method of communicating over an IP-enabled communication
2	network comprising:
3	receiving information from at least one of a plurality of subscribers;
4	determining at least one of a plurality of voice communication lines
5	and at least one signaling line in a multi-line hunt group to carry the received
6	information and associated signaling;
7	formatting information on each of the voice communication lines and
8	signaling lines into a format compatible with the communication network; and
9	sending the formatted information over the communication network.
1	24. A method of communicating over an IP-enabled communication
2	network as in claim 23 further comprising:
3	receiving the formatted information over the communication network;
4	reformatting the converted information back into the original format
5	for transmission over at least one of a plurality of voice communication lines and at
6	least one signaling line in a multi-line hunt group; and
7	sending the reformatted information over a multi-line hunt group.

Appendix

1	25. A method of communicating over an IP-enabled communication
2	network as in claim 23 wherein the reformatted information is sent to a service
3	platform comprising a voicemail platform.
1	26. A method of communicating over an IP-enabled communication
2	network as in claim 23 wherein the reformatted information is sent to a service
3	platform comprising a unified messaging platform.
1	27. (canceled)
1	28. A method of communicating over an IP-enabled communication
2	network as in claim 23 wherein the communication network carries voice over IP
3	(VoIP).

network as in claim 23 wherein the communication network carries voice over frame

A method of communicating over an IP-enabled communication

1

2

3

29.

relay (VoFR).

1	3	30. A m	ethod of communicating over an IP-enabled communication
2	network as in cl	aim 23 whe	erein the communication network carries voice over ATM
3	(VoATM).		
1	3	1. A co	mmunication system comprising:
2	а	n IP-enable	ed communication network;
3	a	t least one	remote site connected to the communication network, the
4	remote site com	prising:	
5		(a)	a plurality of subscribers,
6		(b)	a switch interconnecting the plurality of subscribers,
7		(c)	at least one multi-line hunt group connected to the
8			switch, each multi-line hunt group comprising a
9			plurality of voice communication lines and at least one
10			signaling line carrying signaling data, and
11		(d)	at least one wide area network access device
12			interfacing each multi-line hunt group and the
13		•	communication network; and
14	at	least one s	service site connected to the communication network, the
15	service site com	prising:	
16	· · · · · · · · · · · · · · · · · · ·	(e)	a service platform providing voice services;
17		<b>(f)</b>	a switch connected to the service platform;

18	(g) at least one multi-line hunt group connected to the
19	switch, and
20	(h) at least one wide area network access device
21	interfacing each multi-line hunt group and the
22	communication network.
•	
1	32. A communication system for transmitting audible messages
2	over an IP-enabled communication network comprising:
3	a locality of subscriber units;
4	a switch interconnecting the subscriber units, the switch routing traffic
5	outside of the locality of subscriber units over at least one multi-line hunt group, each
6	multi-line hunt group including a plurality of voice communication lines and at least
7	one signaling line carrying signaling data; and
8	at least one wide area network access device in communication with
9	each multi-line hunt group and the communication network, the wide area network
10	access device converting voice information received over each communication line
11	and signaling data received over each signaling line into a data format acceptable by
12	the communication network.

#### IX. EVIDENCE APPENDIX

None.

Page 10

Atty. Docket No. 1756 (USW0587PUS)

#### X. RELATED PROCEEDINGS APPENDIX

None.

Appendix

### **EXHIBIT D**



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNBY DOCKET NO.	CONFIRMATION NO
09/668,652 09/22/2000 Chris E. Johnson		1756 (USW0587PUS)	2084	
22193 OWEST COM	7590 12/28/2006 MI INICATIONS INTERN	ATIONAL INC	EXAM	INER
QWEST COMMUNICATIONS INTERNATIONAL INC LAW DEPT INTELLECTUAL PROPERTY GROUP			ELALLAM, AHMED	
1801 CALIFORNIA STREET, SUITE 3800 DENVER, CO 80202		00	ART UNIT	PAPER NUMBER
			2616	
			MAIL DATE	DELIVERY MODE
			12/28/2006	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(8)
Communication Re: Appeal	09/668,652	JOHNSON ET AL.
The second secon	Examiner	Art Unit
	AHMED ELALLAM	2616
The MAILING DATE of this communication appe	ears on the cover sheet with th	e correspondence address —
1. The Notice of Appeal filed on is not acc	eptable because:	
(a) it was not timely filed.		
(b) the statutory fee for filing the appeal was	not submitted. See 37 CFR 41.	20(b)(1).
(c) the appeal fee received on was no	ot limely filed.	
(d) the submitted fee of \$ is insufficier	t. The appeal fee required by 37	CFR 41.20(b)(1) is \$
(e)  the appeal is not in compliance with 37 C	FR 41.31(a)(1) in that no claim i	as been twice rejected.
(f) a Notice of Allowability, PTO-37, was ma	iled by the Office on	* %
2. The appeal brief filed on is NOT accept	oblo for the research) in diament b	
(a) the brief and/or brief fee is untimely. See		elow:
_	, ,	
(b) the statutory fee for filling the brief has no	t been submitted. See 37 CFR 4	1.20(b)(2).
(c) the submitted brief fee of \$ is insufficient. The brief fee required by 37 CFR 41.20(b)(2) is \$		
The appeal in this application will be dismissed u brief and requisite fee. See 37 CFR 41.37(a)(1). Ex See 37 CFR 41.37(e),	nless corrective action is take tensions of time may be obtain	n to timely submit the under 37 CFR 1.136(a).
3.   The appeal in this application is DISMISSED be	ecause:	
(a)  the statutory fee for filling the brief as requestion period for obtaining an extension of times	ired under 37 CFR 41.20(b)(2) w to file the brief under 37 CFR 1.1	vas not timely submitted and the 36(a) has expired.
(b)  the brief was not timely filed and the period CFR 1.136(a) has expired.	d for obtaining an extension of ti	me to file the brief under 37
(c) a Request-for-Continued Examination (RC	CE) under 37 CFR 1.1.14 was file	ton
(d) ⊠ other: <u>See continuation.</u>		
4. Because of the dismissal of the appeal, this app	plication:	
(a) 🗵 is abandoned because there are no allow	ed claims.	
<ul> <li>(b) is before the examiner for final disposition on the merits remains CLOSED.</li> </ul>		_
(c) is before the examiner for consideration.	$\mathcal{C}\ell$	in Tiffere
		CHAU NGUYEN
	SUPER TEC	VISORY PATENT EXAMINER HNOLOGY CENTER 2600

Page 2

Application/Control Number: 09/668,652

Art Unit: 2616

Continuation:

The appeal is dismissed because appellant filed an amended brief on 01/19/2006, which does not overcome all the reasons for noncompliance of which the appellant was notified on 12/13/2005. See MPEP 1205.03.

In particular, Appellant didn't address each and every independent claims in accordance with the provision of 37 CFR 41.37(c)(1)(v) as being previously notified in response to the appeal brief filed on 09/22/2005.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AHMED ELALLAM whose telephone number is (571) 272-3097. The examiner can normally be reached on 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, To Doris can be reached on (571) 272-7629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

Application/Control Number: 09/668,652

Art Unit; 2616

Page 3

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AHMED ELALLAM Examiner Art Unit 2616 12/25/06

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